

22. (Previously Amended) The method of claim 1 wherein an immunoglobulin gene is co-introduced into said cell, whereby said cell produces said antibodies.
23. (Currently Amended) A homogeneous culture of isolated, hypermutable, mammalian cells wherein said cells ~~[[produces]]~~ produce antibodies and comprise a dominant negative allele of a ~~[[PMS2]]~~ mismatch repair gene, wherein said dominant negative allele encodes a truncation mutant of a PMS2 protein.
24. (Canceled)
25. (Currently Amended) The culture of isolated, hypermutable, mammalian cells of claim 23 wherein the mismatch repair gene is human *PMS2*.
- 26-28. (Canceled)
29. (Currently Amended) The culture of isolated, hypermutable, mammalian cells of claim 23 wherein the cells express a protein consisting of the first 133 amino acids of hPMS2.
- 30-72. (Canceled)
73. (Previously added) A cell produced by the method of claim 1.
74. (Previously added) A cell produced by the method of claim 4.

- 75. (Previously added) The method of claim 1 further comprising the step restoring genetic stability of said hypermutable cell.
- 76. (Previously added) A cell produced by the method of claim 75.
- 77. (Previously added) A homogeneous culture of the cells of claim 76.
- 78. (Previously added) The method of claim 22 further comprising the step restoring genetic stability of said hypermutable cell.
- 79. (Previously added) A cell produced by the method of claim 78.
- 80. (Previously added) A homogeneous culture of the cells of claim 79.



A DOCPHOENIX

## APPL PARTS

\_\_\_\_\_**IMIS**\_\_\_\_\_  
Internal Misc. Paper

\_\_\_\_\_**LET.**\_\_\_\_\_  
Misc. Incoming Letter

\_\_\_\_\_**371P**\_\_\_\_\_  
PCT Papers in a 371Application

\_\_\_\_\_**A...**\_\_\_\_\_  
Amendment Including Elections

\_\_\_\_\_**ABST**\_\_\_\_\_  
Abstract

\_\_\_\_\_**ADS**\_\_\_\_\_  
Application Data Sheet

\_\_\_\_\_**AF/D**\_\_\_\_\_  
Affidavit or Exhibit Received

\_\_\_\_\_**APPENDIX**\_\_\_\_\_  
Appendix

\_\_\_\_\_**ARTIFACT**\_\_\_\_\_  
Artifact

\_\_\_\_\_**BIB**\_\_\_\_\_  
Bib Data Sheet

\_\_\_\_\_**CLM**\_\_\_\_\_  
Claim

\_\_\_\_\_**COMPUTER**\_\_\_\_\_  
Computer Program Listing

\_\_\_\_\_**CRFL**\_\_\_\_\_  
All CRF Papers for Backfile

\_\_\_\_\_**DIST**\_\_\_\_\_  
Terminal Disclaimer Filed

\_\_\_\_\_**DRW**\_\_\_\_\_  
Drawings

\_\_\_\_\_**FOR**\_\_\_\_\_  
Foreign Reference

\_\_\_\_\_**FRPR**\_\_\_\_\_  
Foreign Priority Papers

\_\_\_\_\_**IDS**\_\_\_\_\_  
IDS Including 1449

\_\_\_\_\_**NPL**\_\_\_\_\_  
Non-Patent Literature

\_\_\_\_\_**OATH**\_\_\_\_\_  
Oath or Declaration

\_\_\_\_\_**PET.**\_\_\_\_\_  
Petition

\_\_\_\_\_**RETMAIL**\_\_\_\_\_  
Mail Returned by USPS

\_\_\_\_\_**SEQLIST**\_\_\_\_\_  
Sequence Listing

\_\_\_\_\_**SPEC**\_\_\_\_\_  
Specification

\_\_\_\_\_**SPEC NO**\_\_\_\_\_  
Specification Not in English

\_\_\_\_\_**TRNA**\_\_\_\_\_  
Transmittal New Application

\_\_\_\_\_**CTNF**\_\_\_\_\_  
Count Non-Final

\_\_\_\_\_**CTRS**\_\_\_\_\_  
Count Restriction

\_\_\_\_\_**EXIN**\_\_\_\_\_  
Examiner Interview

\_\_\_\_\_**M903**\_\_\_\_\_  
DO/EO Acceptance

\_\_\_\_\_**M905**\_\_\_\_\_  
DO/EO Missing Requirement

\_\_\_\_\_**NFDR**\_\_\_\_\_  
Formal Drawing Required

\_\_\_\_\_**NOA**\_\_\_\_\_  
Notice of Allowance

\_\_\_\_\_**PETDEC**\_\_\_\_\_  
Petition Decision

## OUTGOING

\_\_\_\_\_**CTMS**\_\_\_\_\_  
Misc. Office Action

\_\_\_\_\_**1449**\_\_\_\_\_  
Signed 1449

\_\_\_\_\_**892**\_\_\_\_\_  
892

\_\_\_\_\_**ABN**\_\_\_\_\_  
Abandonment

\_\_\_\_\_**APDEC**\_\_\_\_\_  
Board of Appeals Decision

\_\_\_\_\_**APEA**\_\_\_\_\_  
Examiner Answer

\_\_\_\_\_**CTAV**\_\_\_\_\_  
Count Advisory Action

\_\_\_\_\_**CTEQ**\_\_\_\_\_  
Count Ex parte Quayle

\_\_\_\_\_**CTFR**\_\_\_\_\_  
Count Final Rejection

## INCOMING

\_\_\_\_\_**AP.B**\_\_\_\_\_  
Appeal Brief

\_\_\_\_\_**C.AD**\_\_\_\_\_  
Change of Address

\_\_\_\_\_**N/AP**\_\_\_\_\_  
Notice of Appeal

\_\_\_\_\_**PA..**\_\_\_\_\_  
Change in Power of Attorney

\_\_\_\_\_**REM** **9**\_\_\_\_\_  
Applicant Remarks in Amendment

\_\_\_\_\_**XT/**\_\_\_\_\_  
Extension of Time filed separate

BACKFILE DOCUMENT INDEX SHEET

### Internal

\_\_\_\_\_**SRNT**\_\_\_\_\_  
Examiner Search Notes

\_\_\_\_\_**CLMPTO**\_\_\_\_\_  
PTO Prepared Complete Claim Set

\_\_\_\_\_**ECBOX**\_\_\_\_\_  
Evidence Copy Box Identification

\_\_\_\_\_**WCLM**\_\_\_\_\_  
Claim Worksheet

\_\_\_\_\_**WFEE**\_\_\_\_\_  
Fee Worksheet

### File Wrapper

\_\_\_\_\_**FWCLM**\_\_\_\_\_  
File Wrapper Claim

\_\_\_\_\_**IIFW**\_\_\_\_\_  
File Wrapper Issue Information

\_\_\_\_\_**SRFW**\_\_\_\_\_  
File Wrapper Search Info